

FINLAY

DUEL POWER

INCLINED SCREENS



694+ DP



BELL

694+ DUAL POWER

The dual powered Finlay 694+ inclined screen offers operators the flexibility to power the plant either by an electrical connection or diesel/hydraulic configuration.

The plant features a triple deck screen configuration providing three full sized 6.1m x 1.53m (20' x 5') screens. An innovative hydraulically folded fourth (oversize plus) conveyor allows simple adjustment with variable tilt and slew discharge, between 18 degree and 30 degree, for recirculating in closed circuit with a crusher or stockpiling of finished material.

Features:

- ▶ The plant's electrically driven power system provide significant cost advantages and efficiencies.
- ▶ Superior performance in dusty applications and in high altitude environments.
- ▶ The triple deck 6.1m x 1.53m (20' x 5') screen box with full catwalk access is the largest and most accessible in it's class.
- ▶ Maximum utilisation of three 6.1m x 1.53m (20' x 5') decks provide ultra-efficient screening capacities even at small aggregate sizes.
- ▶ Screen box angle can be hydraulically adjusted to an angle between 18° - 30°.

STANDARD FEATURES

Tier 3 / Stage IIIA: Caterpillar C4.4 - 4 cylinder diesel engine developing 97kW (130hp) @ 2200 rpm & 2 x 37kW IE2 electric motors

Tier 4i / Stage IIIB: Caterpillar C4.4 - 4 cylinder diesel engine developing 98kW (131hp) @ 2200 rpm & 2 x 37kW IE2 electric motors (IE3 motors required for the USA)

Tier 4F / Stage IV: Caterpillar C4.4 - 4 cylinder diesel engine developing 98kW (131hp) @ 2200 rpm & 2 x 37kW IE2 electric motors (IE3 motors required for the USA)

Hopper Capacity: 8m³ (10.5yd³) - 4.25m (14') variable speed belt feeder

Belt width: 1.2m (48") wide variable speed belt feeder

Remote control hydraulic tipping reject grid c/w grouser bars

6.1m x 1.53m (20' x 5') All 3 decks

Quick wedge tensioning - top and middle deck

Hydraulic tensioning (bottom deck screen mesh)

Galvanised access catwalks to both sides and around top of screen

Belt Width: 1.2m (48") plain belt on main conveyor

Skirting on main conveyor

Heavy duty undercarriage unit with 500mm wide tracks

Control operation of tracks via hand-held set with 5m connection lead with heavy duty square connector

Low level central greasing & emergency stops (4)

Safety guards in compliance with machinery directive

Oversize Plus Conveyor

- ▶ Drive: Hydraulic variable speed drive via high torque 500cc motor
- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Chevron, EP 315, 3 ply
- ▶ Working Angle: Variable 22° (Max)
- ▶ Speed: variable speed, 120 mpm (400' per min)
- ▶ Discharge Height: Variable 4.8m (Max)
- ▶ Stockpile capacity: 164.5m³ (215.2yd³) @ 40°

Main conveyor

- ▶ Drive: Hydraulic variable speed drive via high torque 630cc motor
- ▶ Belt width: 1.2m (48")
- ▶ Belt spec: Plain 3 ply belt, EP400
- ▶ Hydraulic adjust
- ▶ Belt Speed: 92 mpm (302' per min)
- ▶ Steel skirted full length of conveyor

Screen box

- ▶ All decks: 6.1m x 1.53m (20' x 5')
- ▶ Wedge side tensioned Top and Middle Deck mesh
- ▶ Hydraulic end tensioned Bottom deck mesh
- ▶ Drive: Hydraulic heavy duty 2-Bearing
- ▶ Screen Angle: 18° - 30°, hydraulic adjust
- ▶ Screen speed: 1000 rpm
- ▶ Screen stroke standard: 7.5mm (5/16")
- ▶ Abrasion resistant material impact plate
- ▶ Spreader plate
- ▶ Galvanised access catwalks on both sides and top end of screen
- ▶ Total screening area: 27.8m² (300ft²)

Fines conveyor

- ▶ Drive: Hydraulic variable speed drive via high torque 800cc motor
- ▶ Belt width: 1.2m (48")
- ▶ Belt spec: Plain, 3 ply, EP400
- ▶ Working Angle: Variable 25° (Max)
- ▶ Rosta scraper on head drum
- ▶ Speed: Not variable speed, 92 mpm (302' per min)
- ▶ Standard Discharge Height: 5.2m (17' 1")
- ▶ Stockpile capacity: 260m³ (340yd³)

Hopper / Feeder

- ▶ Hopper Capacity: 8m³ (10.5yd³)
- ▶ Feed height: 3.67m (12')
- ▶ Feed in width: 4.77m (15' 8") (grid wing plates)
- ▶ Grid aperture: 100mm (4")
- ▶ 10mm replaceable steel hopper liners
- ▶ Drive: Hydraulic variable speed drive via high torque gearbox
- ▶ Beltfeeder belt width: 1.2m (48")
- ▶ Belt Spec: Plain EP 630, 4 ply, 6 + 2mm covers.
- ▶ Speed: variable, 0 - 16 mpm (0 - 53' per min)
- ▶ Wide mouth opening

Undercarriage

- ▶ Shoe Width: 500mm (20")
- ▶ Sprocket Centres: 4.2m (13' 9")
- ▶ Speed: 0.8 km/h
- ▶ Gradeability: 32.6°
- ▶ Raking Angle: 9°

Oversize / Middle grade conveyors

- ▶ Drive: Hydraulic variable speed drive via high torque 500cc motor
- ▶ Belt width: 800mm (32")
- ▶ Belt spec: Chevron EP400, 3 ply
- ▶ Working Angle: 24°
- ▶ Speed: variable speed, 0 - 125 mpm (410' per min)
- ▶ Hydraulic Folding
- ▶ Discharge Height: 4.71m (15' 5")
- ▶ Stockpile capacity: 193m³ (252yd³)

Power unit

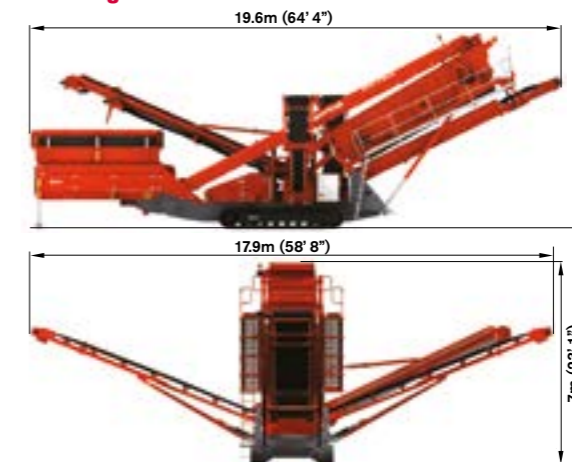
- ▶ Tier 3 / Stage IIIA: Caterpillar C4.4 Engine Power: 97kW (130hp) Engine Speed: 2200 rpm
- ▶ Tier 4i / Stage IIIB: Caterpillar C4.4 Engine Power: 98kW (131hp) Engine Speed: 2200 rpm
- ▶ Tier 4F / Stage IV: Caterpillar C4.4 Engine Power: 98kW (131hp) Engine Speed: 2200 rpm



Transport Dimensions



Working Dimensions



 DUALPOWER 

Machine Weight: * 40,000kg (88,184lbs)
* with tipping grid

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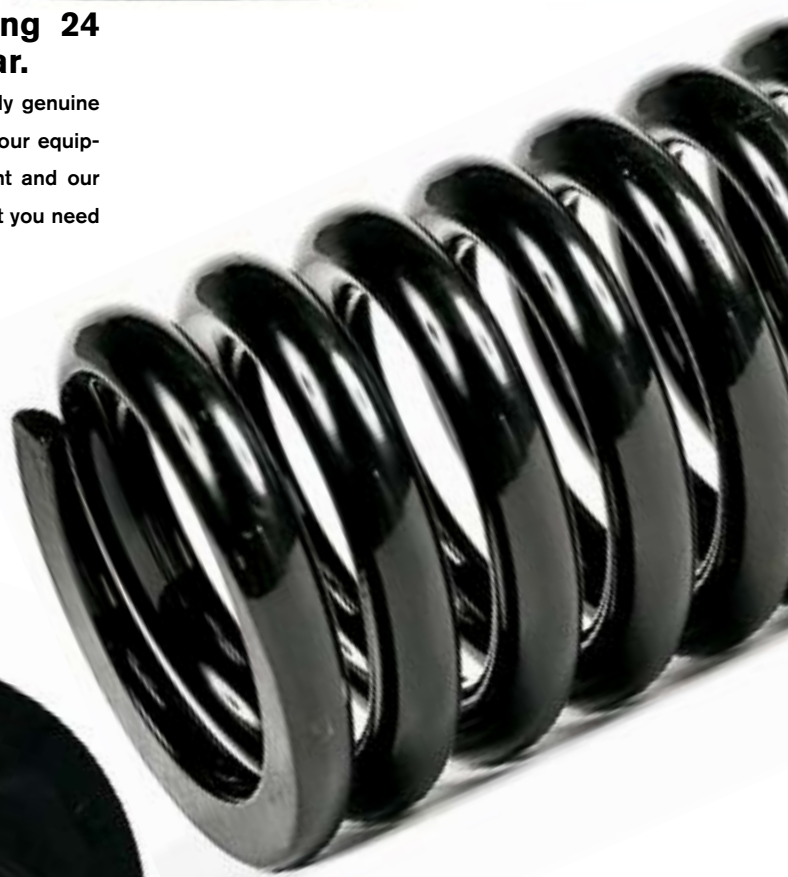
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